



Secretariat of ISO/TC 20/SC 13


our date
1999-8-31
your date

our reference
ISO/TC 20/SC 13/N195
your reference

TO: ISO/TC20/SC13 Members
FROM: ISO/TC20/SC13 Secretariat
SUBJECT: Draft Minutes of ISO/TC20/SC13 Meeting of 19 May 1999

Attached is a copy of the draft minutes of the 19 May 1999 meeting of ISO/TC20/SC13 (SC13) held in Newport Beach, California, USA.

Best regards,


David Townley
ISO/TC 20/SC 13 General Secretary

Attachment

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Secretariat Address

NASA Headquarters, Code MG
2830
Washington, D.C. 20546, USA

Telephone

(+1 202) 358 4818

Fax

(+1 202) 358

Subject: Minutes of the Seventeenth International Organization for Standardization
(ISO)/Technical Committee (TC) 20/Subcommittee (SC) 13 Meeting

Place: Newport Beach, California, United States

Date: 19 May 1999

ATTENDANCE

<u>Name</u>	<u>County/Organization</u>
Eduardo Bergamini	Brazil/IMPE
Arvind Bastikar	Canada/CSA
Klaus Lenhart	ESA/ESOC
Carlo Mazza	ESA/ESOC
Roland Ivarnez	France/CNES
Jean Latour	France/CNES
Hara Hideo	Japan/NASDA
Peter Vaughan	UK/BNSC
Adrian Hooke	USA/NASA
David Townley	USA/NASA
Robert Stephens	USA/NASA
David Andean	Canada/CSA

1. OPENING OF MEETING

The meeting was convened by Mr. Jean Latour on 19 May 1999.

2. ROLL CALL

Mr. Latour conducted a roll call. He welcomed all that were in attendance.

3. ADOPTION OF THE AGENDA

Two items, the SC13 Strategic Plan and the SC13 Program of work, were added to the draft agenda. The agenda was then approved and is shown in Attachment A to these minutes.

4. APPOINTMENT OF DRAFTING COMMITTEE

In compliance with the ISO requirement to appoint a drafting committee, SC 13 resolved that Mr. Robert Stephens, in support of the SC 13 Secretariat, would be responsible for drafting and distributing the meeting minutes (Resolution N195-1).

5. REPORT OF THE SECRETARIAT

Mr. Townley presented the Secretariat's Report (Attachment A). The report was adopted without comment. Because of the dynamic nature of the SC13 Membership Lists, the SC13 Members resolved to place this List on the CCSDS Web site and not provide hard copies of it in the future.

Review of Action Items:

Mr. Townley reviewed the status of action items from the previous meeting. All action items were closed except SC-13/98-7: "The SC13 Secretariat will contact the Secretariat of SC14 to coordinate the development of a program of work for joint SC13/SC14 activities." This will be included with the list of new action items from this meeting.

SC-13/93-1 SC 13 members should investigate recommendations being developed by standards bodies other than CCSDS, and consider whether any of these recommendations should be submitted to SC 13 with the goal of becoming ISO standards.

Assignee: All SC 13 Members and Liaison Organizations

Due Date: Status report at next meeting.

STATUS: OPEN

- This is a continuing action.

SC-13/98-5. The Secretariat will correspond with ISO Central to request a one-year delay in the approval of CCSDS 704.0-B-1 pending an internal review to access the practicality of updating the document to reflect current technology or reassigning as a Green book for reference purposes.

Assignee: Secretariat

Due Date: 31 Dec 1998

STATUS: CLOSED:

- Letter was sent to ISO General Secretariat requesting a delay and delay was granted.
- Panel 1 is to determine what should be the future course of action taken relative to this document.

SC-13/98-6. The Secretariat will correspond with ISO Central to request a delay in the final review of the SCPS Red Books until final edits are completed and approved by P1F. After P1F approval, the books will be approved for Blue status by the Management Council and then forwarded for ISO FDIS review.

Assignee: Secretariat

Due Date: 31 Dec 1998

STATUS: CLOSED

- Letter was sent to ISO General Secretary requesting a delay and delay was granted.
- Action is pending within P1F and CCSDS MC relative to progressing these documents to Blue Book status and to ISO/SC13.

SC-13/98-7. The SC13 Secretariat will contact the Secretariat of SC14 to coordinate the development of a program of work for joint SC13/SC14 activities.

Assignee: Secretariat

Due Date: 31 Mar 99

STATUS: OPEN

- This could end up as a small session among SC13 and SC 14.

SC-13/98-8. The SC13 Secretariat will contact the Secretariat of SC14 to coordinate the development of an agenda for a joint SC13/SC14 session at the July 1999 UNISPACE conference.

Assignee: Secretariat

Due Date: 31 Dec 1998

STATUS: CLOSED

- Speakers have been identified for the joint SC13/14 session at the July 1999 Unispace conference in Vienna.

Approval of Minutes of Previous Meeting:

Mr. Townley reported that the minutes from the November 1998 meeting in Darmstadt had been distributed in April 1999. No comments had been received and the Minutes were approved as distributed.

Review Program of Work:

Mr. Townley presented the status of the SC13 current Program of Work. Mr. Latour indicated that several entries were shown as being in the FDIS category. NASA stated that they had submitted Form 13 to the ISO General Secretary and were of the opinion that these documents could be considered as being FDIS.

- The Secretariat was asked to determine with the Secretary General just when a document becomes an FDIS.
- It was also noted that the title for the Packet Telemetry Services document was listed incorrectly.

Mr. Townley's full report is Attachment B.

6. REPORT OF THE DELEGATES REGARDING ACTIVITIES RELATING TO SC 13

BNSC

Mr. Vaughn reported on SC13 related activities within the UK. He noted that the British Standards Institute (BSI) ACE/67 continues to review SC13 draft international standards (DIS) as they are received. The work of SC14 is tracked by ACE/68. Their relationship with ECSS is evolving as they work to resolve problems that arise when the ECSS wishes to submit documents to ISO which do not conform to the ISO format. He listed 15 SC13 standards that have been accepted by ACE/67 and passed on for issue as BSI Standards. As an aside, he reported that BSI

standards must be purchased. He stated that the fifth (5th) CCSDS workshop on New Technology, New Standards had been held in London in September 1998. He reported that there was discussion at this workshop about the need for conformance testing of our recommendations. Mr. Vaughn's full report is Attachment C to these minutes.

CNES

Mr. Latour reported that CNES continues to chair SC13. They work with the SC13 Secretariat to move CCSDS BB's to ISO Standards in accordance with ISO procedures. He listed the recent activities in this area. In addition, CNES has provided the French translation of three ISO/DIS's. They also work with the French Office for Space and Aerospace Standardization (BNAE) and French Normalization Organization (AFNOR) to promote CCSDS recommendations in the French Industry Community. They also support SC 14 activities. Mr. Latour's full report is Attachment D to these minutes.

CSA

Mr. Bastikar reported on the status of SC13 activity in Canada. He noted that Radarsat 1 had been launched and Radarsat 2 is under contract. Both missions are CCSD-compatible to some extent. He also discussed activities being conducted jointly with other organizations. Mr. Bastikar's full report is Attachment E to these minutes.

ESA

No report

INPE

Dr. Bergamini showed the structure of the Brazilian Association of Technical Standards (ABNT) in some detail. He reported on the Commission of Studies by ABNT in the area of Space Data and Information Systems. They plan to petition ISO/TC20/SC13 for change in membership from the "O" to the "P" category. He provided the URL for the Brazilian Information Network as www.atsme.inpe.br/rbn. He listed 25 SC13 standards that are candidates for adoption by ABNT. Some of the items listed are not yet SC13 standards, such as the SCPS documents. Dr. Bergamini's complete report is Attachment F to these minutes.)

NASA

Mr. Hooke reported for NASA. He indicated that this is a relatively quiet time: there being no SCAG activity currently. He is in the process of revising the SCAG membership within the United States.

NASDA

Mr. Hara reported that there are two ISO documents soon to be approved by Japan, Telemetry Channel Coding (ISO 11754) and SFDU Structure and Construction Rules (ISO 12175). These standards are five years old and are being reviewed for their confirmation vote. Mr. Hara's full report is Attachment G to these minutes.

7. REPORT OF LIAISON ORGANIZATIONS REGARDING ACTIVITIES RELATING TO SC13

ESA indicated that as a member of ECSS, they are able to inject ISO standards into the system. These standards are just coming to ECSS' attention. They need to determine how ECSS will handle changes. * CSA pointed out that a new SC14 document, ISO 14711, "Mission Operations" should be reviewed by SC13 members

8. CONSIDERATION OF NEW PROJECTS' ENDORSEMENT OF EXISTING STANDARDS FROM NON-ISO BODIES

No documents have been submitted for progression as ISO documents.

9. REPORT ON STATUS OF SC 13 WORK IN PROGRESS

The following documents and changes to existing documents were reported.

- Four SCPS DISs have been approved for progression to FDIS.
 - Space Communications Protocol Specification (SCPS)—Network Protocol (SCPS-NP) (CCSDS 713.0-B-1) (ISO/CD 15891)
 - Space Communications Protocol Specification (SCPS)—Security Protocol (SCPS-SP) (CCSDS 713.5-B-1) (ISO/CD 15892)
 - Space Communications Protocol Specification (SCPS)—Transport Protocol (SCPS-TP) (CCSDS 714.0-B-1) (ISO/CD 15893)
 - Space Communications Protocol Specification (SCPS)—File Protocol (SCPS-FP) (CCSDS 717.5-B-1) (ISO/CD 15894)
- Three CCSDS Blue Books have been reaffirmed by CCSDS for another five years:
 - SFDU Structure and Construction Rules (CCSDS 620.0-B-2) (ISO IS 12175)
 - SFDU Control Authority Procedures (CCSDS 630.0-B-1) (ISO IS 13764)
 - ASCII Encoded English (CCSDS 643.0-B-1) (ISO IS 14962)
- One CCSDS Blue Book has received significant technical modification and should be resubmitted to ISO as a DIS:
 - Telemetry Channel Coding (CCSDS 101.0-B-3) (ISO IS 11754)

- One CCSDS White Book is being advanced to Red Book status and should be submitted to ISO as a DIS:
 - Reference Model for an Open Archival Information System (OAIS) (CCSDS 650.0-W-5) (ISO CD 14721)
- One CCSDS White Book is being advanced to Red Book status and should be submitted to ISO as a Committee Draft:
 - CCSDS File Delivery Protocol (CFDP), CCSDS 727.0-R-2, dated May 1999)

The secretariat will initiate the proper procedures with ISO Secretary General to effect these changes.

10. REQUIREMENTS CONCERNING A SUBSEQUENT MEETING

Traditionally, the SC 13 meeting follows the CCSDS Management Council (MC) meeting. The next MC meeting will be hosted by the European Space Agency (ESA) in Frascati, Italy on October 19-20 (AM). Therefore, the next SC 13 meeting will be held in the afternoon of 20 October 1999 and will be hosted by the European Space Agency in Frascati, Italy.

The Spring 2000 meeting of the CCSDS Management Council is set for 27-28 (AM) June, 2000 in Toulouse, France. The location and time for this meeting was set to be contiguous with SpaceOps 2000 which is being held in Paris from 19-23 June, 2000. Therefore, the SC13 meeting has been scheduled for 28 (PM) June, 2000 in Toulouse, France.

Concern was expressed by the ESA delegation over the cost of possibly holding the Fall 2000 meeting in Brazil. Discussion of this problem was deferred until a later time when budget considerations may become more favorable.

11. ANY OTHER BUSINESS

Conformance Testing

Concern was expressed about the growing importance of testing products that claim to be conformant with SC13 standards. As a consequence, TC20/SC13 resolves to explore the topic of interoperability testing of space products which claim conformance to 'SC13. Recognition was made of the significant investment that such testing may require.

Strategic Plan

It had been decided at an earlier SC13 meeting that the CCSDS Strategic Plan should be completed before it is used as a baseline for the SC13 Strategic Plan. Since the CCSDS Plan is not completed, discussion on this subject was deferred.

12. APPROVAL OF RESOLUTIONS AND ACTION ITEMS

Time did not permit this item being addressed. Approval of the Resolutions and Action Items will be conducted via e-mail.

The meeting was adjourned at 2045 hours.

**DRAFT RESOLUTIONS
ISO/TC 20/SC 13 MEETING
Newport Beach, California
18 May 1999**

N195-1. In compliance with the ISO requirement to appoint a drafting committee, SC 13 resolves that Robert Stephens will be responsible for drafting and distributing the 18 May 1999 meeting minutes.

N195-2. Because of the dynamic nature of the SC13 Membership Lists, SC13 resolves to place these lists on the CCSDS Web Site and dispense with hard copies in the future.

N195-3. SC-13 resolves to progress the following four documents to FDIS status:

- Space Communications Protocol Specification (SCPS)—Network Protocol (SCPS-NP)) (CCSDS 713.0-B-1) (ISO/CD 15891)
- Space Communications Protocol Specification (SCPS)—Security Protocol (SCPS-SP) (CCSDS 713.5-B-1) (ISO/CD 15892)
- Space Communications Protocol Specification (SCPS)—Transport Protocol (SCPS-TP) (CCSDS 714.0-B-1) (ISO/CD 15893)
- Space Communications Protocol Specification (SCPS)—File Protocol (SCPS-FP) (CCSDS 717.5-B-1) (ISO/CD 15894)

N195-4 SC13 resolves to notify the ISO Secretary General that the following three International Standards have been reaffirmed for another five years:

- SFDU Structure and Construction Rules (CCSDS 620.0-B-2) (ISO IS 12175)
- SFDU Control Authority Procedures (CCSDS 630.0-B-1) (ISO IS 13764)
- ASCII Encoded English (CCSDS 643.0-B-1) (ISO IS 14962)

N195-5 In view of significant changes in the technical content of Telemetry Channel Coding, CCSDS 101.0-B-3, SC13 resolves to resubmit the document, formerly ISO 11754, for reprocessing as a DIS.

N195-6 SC13 resolves to advance the following document from CD to DIS status:.

- Reference Model for an Open Archival Information System (OAIS) (ISO CD 14721).

N195-7 SC13 resolves to submit the following document to ISO as a Concept Document:

- CCSDS File Delivery Protocol (CFDP), CCSDS 727.0-R-2, dated May 1999)

N195-8 SC13 resolves to explore the topic of interoperability testing of space products which claim conformance to SC13 standards.

N195-9 Recognizing the significant investment that interoperability testing may entail, SC13 further resolves to:

- Contact ISO/TC20/SC14 with respect to this matter,
- Canvass the space supplier base of the ISO member countries to determine if there is interest in an industry-led thrust in this area.

N195-10 SC 13 resolves to accept the proposal of the ESA/ESRIN to host the Fall 1999 SC 13 Meeting at Frascati, Italy. The scheduled date is 20 October 1999.

N195-11 SC 13 resolves to accept the proposal of the National Center for Space Studies (CNES) to host the Spring 2000 SC 13 Meeting in Toulouse, France on 28 June 2000 (PM).

N195-12 SC 13 resolves to thank the Jet Propulsion Laboratory and the National Aeronautics and Space Administration (NASA) for their excellent support and hospitality provided to SC 13 at the 18 May 1999 meeting in Newport Beach, California.

SC13 ACTION ITEMS
Newport Beach, California
18 MAY, 1999

OPEN ACTION ITEMS FROM PREVIOUS MEETINGS:

SC-13/93-1 SC 13 members should investigate recommendations being developed by standards bodies other than CCSDS, and consider whether any of these recommendations should be submitted to SC 13 with the goal of becoming ISO standards.

Assignee: All SC 13 Members and Liaison Organizations

Due Date: Status report next meeting

STATUS: OPEN – This is a continuing action

SC-13/98-7. The SC13 Secretariat will contact the Secretariat of SC14 to coordinate the development of a program of work for joint SC13/SC14 activities.

Assignee: Secretariat

Due Date: 31 Mar 99

STATUS: OPEN; This could end up as a small session among SC13 and SC 14

NEW ACTION ITEMS FROM THIS MEETING:

SC-13/99-1. The Secretariat will determine with the ISO Secretary General just when a document becomes an FDIS.

Assignee: Secretariat

Due date: July 15

SC-13/99-2. Determine how ECSS plans to handle any changes to ISO/TC20/SC13 standards as they are adopted by ECSS

Assignee: ESA

Due Date: Next Meeting

SC-13/99-3. Resolve how the workload of translating into French the many new documents being processed by SC 13 as a result of this Spring 99 meeting can be accomplished.

Assignee: CNES (Ivernez), CSA (Bastikar) and ESA (Mazza)

Due Date: July 15

SC-13/99-4. Review SC14 document entitled, ISO 14711, "Mission Operations-Concepts"

Assignee: SC13 members

Due Date: Next Meeting

SC-13/99-5. Contact ISO/TC20/SC14 relative to their interest in conformance testing of products claiming compatibility with their standards

Assignee: Secretariat

Due Date: Next Meeting

SC-13/99-6. Canvass your country's space systems supplier base to determine interest in an industry-lead conformance test bed.

Assignee: Members

Due Date: Next Meeting

ATTACHMENT A
SECRETARIAT'S REPORT

ISO TC20 SC13 Secretariat Report

Newport Beach, California, USA

1999-5-19

Enclosed are the following documents:

<u>Document</u>	<u>ISO/TC20/SC 13 N#</u>
Draft Agenda	N186
ISO/TC20/SC13 Directory	N 21
Log on “N” Numbered Documents	N 18
Log of Documents Received from ISO Central Secretariat	N/A

17th MEETING of ISO/TC 20/SC 13
Newport Beach, California, USA
18 May 1999

AGENDA

1. Opening of the meeting (1845 hours)
2. Roll call of delegates
3. Adoption of the agenda (ISO/TC 20/SC 13/N186)
4. Appointment of drafting committee
5. Report of the secretariat
 - Action Items
 - Approval of Draft Minutes of the Nov. 1998 Meeting
 - Review Program of Work
6. Report of delegates regarding activities relating to SC 13
7. Report of liaison organizations regarding activities relating to SC 13
8. Consideration of new projects/endorsement of existing standards from non-ISO bodies
9. Any other business
 - SC-13/SC-14 /Coordination Meeting
 - SC 13 Strategic Plan
 - SC 13 Program of Work
10. Requirements concerning a subsequent meeting
11. Approval of resolutions and action items
12. Closing of the meeting (2100 hours)

ISO/TC 20/SC 13 DIRECTORY

ISO/TC 20/SC 13/N21

Revision date: 15 April 1999

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Please report any errors, omissions, or changes to this directory to the ISO TC 20/SC 13 Secretariat at the address/number below.

NATIONAL AERONAUTICS AND SPACE
ADMINISTRATION
Mr. David L. Townley
NASA Headquarters, Code MG
Washington, DC 20546-0001
USA

TEL: +1 202 358 4818
FAX: +1 202 358 2830
E-Mail: david.townley@hq.nasa.gov

ISO/TC 20/SC 13 DIRECTORY

ISO/TC 20/SC 13/N21

Revision date: 15 April 1999

Secretariat Offices

SWITZERLAND

ISO Central Secretariat
Mr. F. Abram
Senior Technical Officer
1, Rue de Varembe
Case Postale 56
CH-1211 Geneva 20
SWITZERLAND

TEL: +41 22 734 12 40
FAX: +41 22 749 73 49
E-Mail: abram@isocs.iso.ch

USA

Aerospace Industries Association
Attn.: Mr. Bruce Mahone
ISO/TC 20 Secretariat
1250 Eye Street, N.W.
Washington, DC 20005
USA

TEL: +1 202 371 8462
FAX: +1 202 371 8470
E-Mail: bruce@aia.aerospace.org

NATIONAL AERONAUTICS AND SPACE
ADMINISTRATION
Mr. David L. Townley
NASA Headquarters, Code MG
Washington, DC 2054@0001
USA

TEL: +1 202 358 4818
FAX: +1 202 358 2830
E-Mail: david.townley@hq.nasa.gov

Member Bodies

CANADA

Standards Council of Canada
Joe McMahon
45 O'Connor St., Suite 1200
Ottawa, Ontario K1P 6N7
Canada

TEL: +1 613 238 3222 x152
FAX: +1 613 995 4564
E-Mail: jmcmahon@scc.ca

Canadian Space Agency (CSA)
Arvind Bastikar
3701 Carling Avenue
P.O. Box 11490, Station H
Ottawa, Ontario K2H 8S2
Canada

TEL: +1 613 990 4100
or +1 514 926 4610
Fax: +1 613 991 9155
arvind.bastikar@space.gc.ca

CHINA

China State Bureau of Technical Supervision
Mr. Jin Guang
P. O. Box 8010
Beijing 100088
Peoples Republic of China

TEL: +86 10 203 37 37
FAX: +86 10 203 37 37
E-Mail:

China Astronautics Standards Institute
Mr. Zhang Liding
No. 2 Yue Tan Bei Xiao Street
P. O. Box 835
Beijing 100830
Peoples' Republic of China

TEL: +86 10 687 68040
FAX: +86 10 680 34236
E-Mail: ldzhang@hotmail.com

FRANCE

Bureau de Normalisation de l'Aeronautique et de l'Espace
The Director
Technopolis 54
199, Rue Jean-Jacques Rousseau
92138 Issy-les-Moulineaux cedex
France

TEL: +33 1 47 65 70 00
FAX: +33 1 46 62 98 00
E-Mail:

Centre National d'Etudes Spatiales
Mr. Jean LaTour
CNES/CT/EO/CM
18, Avenue Edouard Belin
31401 Toulouse Cedex 4
France

TEL: +33 5 61 27 34 47
FAX: +33 5 61 27 31 35
E-Mail: jean.latour@cnes.fr

ISO/TC 20/SC 13 DIRECTORY ISO/TC 20/SC 13/N21

Revision date: 15 April 1999

GERMANY

Deutsches Institut für Normung
Mr. H. Lücken
Normenstelle Luftfahrt
Kamekestr. 8
50672 Köln
Germany

TEL: +49 221/5713-207
FAX: +49 221/5713-414
E-Mail:

DEUTSCHE FORSCHUNGSANSTALT
FOR LUFT- UND RAUMFAHRT E.V. (DLR)
Mr. Hubertus Wanke,
German Space Operations Centre
GSOC-MB
Munchner Str. 20, Oberpfaffenhofen
D-82234 Wessling
GERMANY

TEL: +49 8153 28 2755
FAX: +49 8153 28 1455
E-Mail: hubertus.wanke@dlr.de

ITALY

Ente Nazionale Italiana di Unificazione
Mr. R. Morandi
Technical Director
Via Battistorri Sassi 11
20133 Milano
Italy

TEL: +39 2 700 241
FAX: +39 2 701 06106
E-Mail:

JAPAN

Ministry of International Trade and Industry
Mr. Syoichi Saba
3-1, Kasumigaseki 1, Chiyodaku
Tokyo
Japan

TEL: +81 3 3501 9295
FAX: +81 3 3580 1418
E-Mail:

National Space Development Agency of Japan
Mr. Koichi Ayabe
2-4-1 Hamamatsucho
Minato-ku, Tokyo 105-6128
Japan

TEL: +81 3 3438 6270
or +81 298 52 2349 (Kashimoto)
FAX: +81 3 5402 6517
E-Mail: NASDACCSDS@nasda.go.jp

Society of Japanese Aerospace Companies, Inc.
Mr. Toshihiko Nakamura, President
Tokyu-Tameike Bldg. 2F
1-14 Akasaka 1-chome
Minato-ku, Tokyo 107
Japan

TEL: +81 3 3585 0511
FAX: +81 3 3585 0541
E-Mail:

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Revision date: 15 April 1999

RUSSIAN FEDERATION

Institute Scientific Research Institute for Standardization
Anatoly V. Mitin, Head
37/10, Sokolnichesky Val
107113, Moscow
Russia

TEL: +7 095 268 43 69
FAX: +7 095 264 77 77
E-Mail:

State Committee for Standardization and Metrology
Leninsky Prospekt 9
Moskva 117049
Russian Federation

TEL: +7 817 236 40 44
FAX: +7 095 236 82 09
E-Mail:

RUSSIAN SPACE AGENCY
Mr. Vladimir N. Starostin
Schepkina qtr., 42
Moscow
RUSSIAN FEDERATION

TEL: +7 095 975 45 85
FAX: +7 095 251 87 02 or +7 095 883 5622
E-Mail: motsulev@mcc.rsa.ru (for Mr. Starostin)

UNITED KINGDOM

British National Space Centre (BNSC)
Mr. Peter A. Vaughan
Rutherford Appleton Laboratory
Building R68
Chilton, Didcot
Oxfordshire OX11 0QX
United Kingdom

TEL: +44 1 235 44 6269
FAX: +44 1 235 44 6667
E-Mail: p.a.vaughan@rl.ac.uk

British Standards Institute
Mr. F. P. Slot
389 Chiswick High Road
London W4 4AL
United Kingdom

TEL: +44 1 81 996 7174
FAX: 44 1 81 996 7400
or +44 1 81 996 7143 (Direct)
E-Mail: peter.slot@bsi.bsi.btx400.co.uk

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Revision date: 15 April 1999

USA

American National Standards Institute
Ms. Henrietta Scully
11 W. 42nd Street
New York, NY 10036-8002
USA

TEL: +1 212 642 4946
FAX: +1 212 398 0023
E-Mail: hscully@ansi.org

NASA/Jet Propulsion Laboratory
Telecommunications and Mission Operations Directorate
Mr. Adrian J. Hooke
M/S 303-400
4800 Oak Grove Drive
Pasadena, California 91109-8099

TEL: +1 818 354 3063
FAX: +1 818 393 3575
E-Mail: adrian.hooke@jpl.nasa.gov

SAE
Mr. Jay D. Myers, Jr.
400 Commonwealth Drive
Warrendale, PA 15096
USA

TEL: +1 412 776 4841 ext. 7142
FAX: +1 412 776 0243
E-Mail:

O-Member Bodies

ARGENTINA

Instituto Argentino de Normalización
Mr. Mario O. Wittner
Chile 1192
1098 Buenos Aires
Argentina

TEL: +54 1 383 37 51
FAX: +54 1 383 84 63
E-Mail: iram2@sminter.com.ar

BRAZIL

Associacao Brasileira de Normas Tecnicas
Mr. Eduardo Campos de São Thiago
Assessor International
Av. Treze de Maio, 13
28 andar – CEP 20003-900
Rio de Janeiro
BRAZIL

TEL: +55 21 210 3122
FAX: +55 21 532 2143
E-Mail:

INSTITUTO NACIONAL DE PESQUISAS ESPACIAIS (INPE)
Eduardo W. Bergamini
Activity of Application Services
in Space Mission (ATSME)
Avenida dos Astronautas, 1758
12.227-010 Sao Jose dos Campos, SP
BRAZIL

TEL: +55 12 325 6166 (Sec.)/6603 (office)
FAX: +55 12 325 6150 (Sec.)
E-Mail: e.w.bergamini@atsme.inpe.br

INDIA

Bureau of Indian Standards
Mr. Y. R. Taneja
Manak Bhavan
9 Bahadur Shah Zafar Marg
New Delhi 110002
India

TEL: +91 11 3310131 or +91 11 3311375
FAX: +91 11 3314062 or +91 11 3719399
E-Mail:

POLAND

Polish Committee for Standardization (PKN)
Mr. Zygmunt Niechoda
Director, Foreign Relations Dept.
ul. Elektoralna 2
P. O. Box 10
PL 00-950 Warszawa
Poland

TEL: +48 2 620 54 34
FAX: +48 2 620 07 41
E-Mail:

ISO/TC 20/SC 13 DIRECTORY

ISO/TC 20/SC 13/N21

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Liaisons

COSPAR
Mr. S. Grzedzielski
Executive Director
Boulevard de Montrouency 51
F-75016 Paris
FRANCE

TEL: +33 1 45 25 06 79
FAX: +33 1 40 50 98 27
E-Mail: COSPAR@paris7jussieu.fr

EUROPEAN SPACE AGENCY
Dr. Carlo Mazza
Robert Bosch Strasse 5
D-64293 Darmstadt

TEL: +49 6151 902230
FAX: +49 6151 903404
E-Mail: cmazza@esoc.esa.de

International Society for Photogrammetry and Remote Sensing
Dr. Manfred Schroeder
Chair, ISPRS Working Group I/1
Head, Optical RS Division
Institute of Optoelectronics
DLR, Postfach 11 16
D-822230 Wessling
Germany

TEL: +49 8153 28 2790
FAX: +49 8153 28 144
E-mail: me@zeus.oe.op.dlr.de

NORWEGIAN TECHNOLOGY STANDARDS INSTITUTION
Ms. Bjornhild Saeteroy
ISO/TC 211 Secretariat
P. O. Box 7072 Majorstua
N-0306 Oslo
NORWAY

TEL: +47 22 59 67 16
FAX: +47 22 59 67 33
E-Mail: Bjornhild.Saeteroy@nts.no
or: <http://www.statkart.no.isotc211/>

ECMA
Mr. J. van den Beld
ISO/IEC JTC1/SC 2 Secretariat
114 Rue du Rhone
CH – 1024 Geneve
SWITZERLAND

TEL: +41 22 849 60 00
FAX: +41 22 786 52 31
E-Mail: jan.van-den-beld@ecma.ch

WORLD METEOROLOGICAL ORGANIZATION
Mr. D. E. Hinsman, Senior Scientific Officer
Satellite Systems
41, Guiseppe Motta
Case postale 2300
1211 Geneva 2
SWITZERLAND

TEL: +41 22 730 82 85
FAX: +41 22 734 23 26
E-Mail: hinsman@www.wmo.ch

ISO/TC 20/SC 13 DIRECTORY

ISO/TC 20/SC 13/N21

Revision date: 15 April 1999

AMERICAN INSTITUTE FOR AERONAUTICS AND ASTRONAUTICS

Mr. James French
ISO/TC 20/SC 14 Secretariat
Suite 500
1801 Alexander Bell Drive
Reston VA 20191
USA

TEL: +1 703 264 7570
FAX: +1 703 264 7551
E-Mail: jimf@aiaa.org

INTELSAT

Dr. Colin Amor
Manager, International Standards and Regulations
3400 International Drive NW
Washington, DC 20008-3098
USA

TEL: +1 202 944 6800
FAX: +1 202 944 7898
E-Mail:

NASA HDOS/CODE IY

Leslie Charles
Secretariat, CEOS
Washington DC 20546-0001
USA

TEL: +1 202 358 0864
FAX: +1 202 358 2798
E-Mail: lcharles@hq.nasa.gov

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Mr. David L. Townley
NASA Headquarters, Code MG
Washington, DC 2054@0001
USA

TEL: +1 202 358 4818
FAX: +1 202 358 2830
E-Mail: david.townley@hq.nasa.gov

ISO/TC 46/SC 4 Secretariat NATIONAL INFORMATION STANDARDS ORGANIZATION (NISO)

Ms. Patricia Harris
Suite 300
4733 Bethesda Avenue
Bethesda MD 20814
USA

TEL: +1 301 654 2512
FAX: +1 301 654 1721
E-Mail: pharris@cni.org

COMMUNICATIONS LOG

ISO TC 20/SC 13/N18
REVISION DATE: 9/1/99

LOG OF DOCUMENTS FOR ISO TC 20/SC 13

“N”- Number	Date Issued	Status *	Description
N1	90-04-26	S (N1/1)	Notice of 90-09-24 meeting/Draft Agenda
N1/1	90-08-14		Revised Agenda
N2	90-09-24	S (N20)	USSR Proposal on Liquid Rocket Engine Testing
N3	90-09-24		ISO TC 20/SC 13 Charter & Scope
N4	90-09-25		Report of SC 13 Secretariat
N5	90-09-25		Resolutions of First Meeting
N6	90-10-15	S (N18)	Minutes of First Meeting
N7	90-10-15		Communications Log
N8	90-10-15	S (N15)	Project Log
N9	91-02-14		DIS 11103 Radio Metric & Orbit Data (English)
N10	91-02-14		DIS 11103 Radio Metric & Orbit Data (French)
N11	91-02-14		DIS 11104 Time Code Formats (English)
N12	91-02-14		DIS 11104 Time Code Formats (French)
N13	91-02-14	S (N18)	Cancellation Notice for 25 April 1991 SC 13 Meeting
N14	91-02-14		Communications Log
N15	91-02-14		Project Log
N16	91-03-05	S (N165)	SC 13 Status Report to TC 20 Plenary
N17	91-03-05		SC 13 Master Plan
N18	91-03-05		Log of “N” Numbered Documents
N19	91-04-26		Preliminary Notice of Meeting and Status Report
N20	91-04-26		ISO TC 20/SC 13 Charter & Scope (Approved at TC 20 Plenary)
N21	91-04-26		SC 13 Master Directory
N22	91-06-19		Notice of 91-10-03 meeting/Draft Agenda
N23	91-06-27		Meeting Arrangement Letter to Delegates
N24	91-09-13		ISO/TC 20/WG 6 Status and Future Activities (reissue of ISO/TC 20 N2671)
N25	91-09-13		Report on Ballot for DIS 11103 and DIS 11104

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COMMUNICATIONS LOG

ISO TC 20/SC 13/N18
REVISION DATE: 9/1/99

LOG OF DOCUMENTS FOR ISO TC 20/SC 13 (Continued)

“N”- Number	Date Issued	Status *Description
N26	91-10-03	Liaison to CCSDS re new topics
N27	91-10-03	Contribution on the formation of new TC for Space (Abram)
N28	91-10-03	New work proposal by France (included in ballot response to DIS 11103/11104)
N29	91-10-03	Work on ISO on Certification and Quality Assurance (Abram)
N30	91-10-03	Draft of ISO Development Program for 1992-1994 (Abram)
N31	91-10-09	Liaison Report to CCSDS
N32	91-12-01	ISO 11103 (IS on Radio Metric and Orbit Data)
N33	91-12-01	ISO 11104 (IS on Time Code Formats)
N34	91-12-31	Welcoming letter to JISC as P-Member
N35	91-12-31	Minutes of second meeting of ISO/TC 20/SC 13
N36	92-02-21	S(N38/1) Draft agenda for 92-05-22 meeting
N37	92-04-22	
N38	92-04-22	S(N38/1) Report of the secretariat at 92-05-22 meeting
N38/1	92-05-22	
N39	92-05-22	Second notice/agenda for 92-05-22 meeting
N40	92-05-22	Approved agenda of 92-05-22 meeting
N41	92-05-22	Presentation by Mr. Abram
N42	92-05-22	Sustainable Industrial Development paper (Abram)
N43	92-05-22	Article (N40 topic) from ISO Bulletin (92-04)
N44	92-05-22	Notice on Symp. on Space Tech. for Environment
N45	92-05-22	World-wide Recognition of OSI Test Results
N46	92-05-22	Resolutions of 92-05-22 meeting of ISO/TC 20/SC 13
N47	92-07-22	Minutes of 92-05-22 meeting of ISO/TC 20/SC 13
	92-07-22	Report of ISO/TC 20/SC 13 to ISO/TC 20 Plenary (92-10)
	92-08-10	Draft Agenda for 92-11-17 meeting of ISO/TC 20/SC 13

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COMMUNICATIONS LOG

ISO TC 20/SC 13/N18
REVISION DATE: 9/1/99

LOG OF DOCUMENTS FOR ISO TC 20/SC 13 (Continued)

“N”- Number	Date Issued	Status *Description
N48	92-08-10	Hotel Arrangements for 92-11-17 Meeting
N49	92-12-15	Letter to ISO Central Secretariat re 92-11-17 Meeting
N50	92-12-11	Letter to Ziemann re ISPRS Type B Liaison
N51	92-12-17	Minutes of 4 th meeting of ISO/TC 20/SC 13
N52	93-01-29	Letter to ISO Central Secretariat re DIS 12175 ballot request
N53	93-03-17	Draft Agenda for 93-06-09 meeting of ISO/TC 20/SC 13
N54	93-02-22	SC13 Secretariat Report for 93-06-09 Meeting
N55	93-04-26	Revised Notice of 93-06-09 Meeting and Agenda
N56	93-06-09	Minutes of 5 th meeting of ISO/TC20/SC13 (Brazil)
N57	93-07-08	Letter to ISO Central Secretariat
N58	93-07-26	Preliminary Notice of 93-10 Meeting and Agenda
N59	93-09-20	Revised Notice of 93-10 Meeting and Agenda
N60	93-10-29	SC 13 Secretariat Report to ISO/TC20/SC13 Meeting in Vienna
N61	93-11-14	Minutes of 6 th Meeting of ISO/TC20/SC13 (Vienna)
N62	94-01-24	Preliminary Notice of 93-05-06 Meeting and Agenda
N63	94-02-25	SC13 Secretariat Report to TC20 Plenary at Beijing
N64	94-02-25	Revised Notice of 93-05-06 Meeting and Agenda
N65	94-03-09	Form 8A Submission for DIS 13419 (Packet Telemetry)
N66	94-03-09	Form 8A Submission for DIS 13764 (SFDU CA)
N67	94-03-09	Transmittal Letter to ISO re DIS13419/13764
N68	94-03-24	Form 8A Submission for DIS 12171 (T/C-Channel Services)
N69	94-03-24	Form 8A Submission for DIS 12172 (T/C-Data Routing Services)
N70	94-03-24	Form 8A Submission for DIS 12173 (T/C-Command Operating Procedures)
N71	94-03-24	Form 8A Submission for DIS 12174 (T/C-Data Management Services)
N72	94-03-24	Form 8A Submission for DIS 12175 (SFDU-Structure & Construction Rules)

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COMMUNICATIONS LOG

ISO TC 20/SC 13/N18
REVISION DATE: 9/1/99

LOG OF DOCUMENTS FOR ISO TC 20/SC 13 (Continued)

“N”- Number	Date Issued	Status	*Description
N73	94-03-24		Transmittal Letter to ISO re DIS12171-12175
N74	94-04-08		SC 13 Secretariat Report to ISO/TC20/SC13 Meeting in Villafranca
N75	94-09-27	S(N75/1)	Minutes of 7 th Meeting of ISO/TC20/SC13 (Villafranca)
N75/1	94-10-14		Correction to Attachment D to Minutes of 7 th Meeting
N76	94-09-28		Form 8A Submission for DIS 13764 F (SFDUs CA Procedures)
N77	94-09-29		Transmittal Letter to ISO re DIS 13764 F
N78	94-10-13		Draft Agenda for 94-11-11 Meeting
N79	94-10-13		SC 13 Secretariat Report to ISO/TC20/SC13 Meeting in Greenbelt
N80	94-11-02		Letter to Mr. A. V. Mitin, NIISU Director (Russia)
N81	95-02-01		Minutes of 8 th Meeting of ISO/TC20/SC13 Meeting in Greenbelt
N82F	94-11-15		Form 8A Submission for DIS 12172 (F) (T/C-Data Routing Services)
N83F	94-11-15		Form 8A Submission for DIS 12174(F) (T/C-Data Management Services)
N84	94-11-15		Transmittal Letter to ISO re DIS 12172 and 12174 (F)
N85	94-11-15		New Work Item Proposal by SC 14 re Space Systems-Archiving Space Data
N86	94-11-15	C(6/95)	New Work Item Proposal by SC 14 re Space Systems-Mission Opns Concept
N87	94-11-15	C(6/95)	New Work Item Proposal by SC 14 re Space Systems-Mission Opns Function
N88	94-12-20		Liaison between ISO/TC 211 and ISO/TC 20/SC 13
N89F	94-11-15		Form 8A Submission for DIS 13419 (Packet Telemetry) (F)
N90	94-11-15		Transmittal Letter to ISO re DIS 13419
N91	94-12-12		Letter to ISO Central Secretariat re 94-11-11 Meeting
N92	94-12-13		Current Status of ISO/TC 20 Draft Standards
N93	95-01-06		Liaison between INTELSAT and ISO/TC 20/SC 13
N94	95-01-06		Liaison between CEOS and ISO/TC 20/SC 13

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COMMUNICATIONS LOG

ISO TC 20/SC 13/N18
REVISION DATE: 9/1/99

LOG OF DOCUMENTS FOR ISO TC 20/SC 13 (Continued)

“N”- Number	Date Issued	Status	*Description
N95	95-01-12	S(N95/1)	Preliminary Notice of 1995-05-12 Meeting and Agenda
N95/1	95-03-10		Draft Agenda for 95-05-12 Meeting
N96	95-03-17		Letter to ISO/TC20/SC13 Distribution re 1995-05-12 Mtg
N97	95-05-01		SC 13 Secretariat Report to ISO/TC20/SC13 Meeting in St. Hubert
N98	95-05-12		Form 8A Submission for DIS 13420 (AOS Networks&Data Links: Architectural Specification)
N99	95-05-	C	Transmittal Letter to ISO re DIS 13420
N100	95-05-26		Letter to ISO Central Secretariat re 95-05-12 Meeting
N101	95-05-12		Minutes of 9 th Meeting of ISO/TC20/SC13 in St. Hubert
N102	95-05-12		Form 8A Submission for CCSDS 641.0-B-1 (Parameter Value Language Specification) as DIS document
N103	95-05-12		Form 8A Submission for CCSDS 642.0-B-1 (ASCII Encoded English) as DIS document
N104	95-06-09		Letter to ISO/TC 20/SC 13 Distribution re Update to Directory
N105	95-06-12		Letter to Standards Council of Canada
N106	95-07-10		SC13 Secretariat Report to TC20 Plenary at Washington DC
N107	95-07-05		Letter to ISO Central Secretariat re Data Archiving WI
N108	95-07-05		Letter to ISO Central Secretariat re Mission Ops WI's (joint letter from SC13 and SC 14)
N109	95-07-03	S(N109/1)	Preliminary Notice of 1995-11-16 Meeting and Agenda
N109/1	95-11-07		Draft Agenda for 95-11-16 Meeting
N110	95-10-12		SC 13 Secretariat Report to ISO/TC20/SC13 Mtg in Toulouse
N111	95-08-07		Letter to ISO/TC20/SC13 Chair re 13419 Report of Voting
N112	95-08-08		Letter to ISO Central, Approval of coversheet document for ISO/DIS 14961 and 14962

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COMMUNICATIONS LOG

ISO TC 20/SC 13/N18
REVISION DATE: 9/1/99

LOG OF DOCUMENTS FOR ISO TC 20/SC 13 (Continued)

“N”- Number	Date Issued	Status *Description
N113	95-08-09	Letter to ISO Central Secretariat re Request for Addition to Cover Pages for ISO/DIS 12171 thru 12174
N114	95-08-21	Letter to ISO/TC20/SC13 Chair re 13764 Report of Voting
N115	95-09-11	Letter to ISO/TC20/SC13 Distribution re 1995-11-16 Mtg
N116	95-10-02	Letter to ISO/TC 20/SC 13 Chair re 12172 Report of Voting
N117	95-10-02	Letter to ISO/TC 20/SC 13 Chair re 12174 Report of Voting
N118	95-10-02	Letter to ISO Central Secretariat, Approval of coversheet document for ISO/DIS 13420
N119	95-10-05	Letter to ISO Central Secretariat re Addition to cover pages for ISO 12171, 12172, and 12173 and 12174
N120	95-10-12	Information for ISO/TC 20/SC 13 10 th Meeting - 16 November 1995
N121	95-11-10	SC 13 Secretariat Report to ISO/TC 20/SC 13 Meeting in Toulouse
N122	95-11-16	Minutes of 10 th Meeting of ISO/TC 20/SC 13 in Toulouse
N123	95-11-28	Letter to ISO Central Secretariat, Approval of Proof for ISO 13764
N124(F)	95-12-04	Letter to ISO Central Secretariat re ISO/DIS 13420 – corrected page to French text
N125	96-01-22	Letter to ISO Central Secretariat re 95-11-16 Meeting
N126(F)	95-12-04	Form 8A, Submission for ISO/DIS 14962 (ASCII Encoded English) (F)
N127	96-01-22	Letter to Mr. Niechoda (Poland)
N128	96-01-22	Letter to Mr. Taneja (India)
N129	96-01-22	S(N129/1) Preliminary Notice of 1996-05-14 Meeting and Agenda
N129/1	96-05-01	
N130(F)	96-01-17	
		Draft Agenda for 96-05-14 Meeting
		Form 8A, Submission for ISO/DIS 14961 (Parameter value language Specification) (F)
N131	96-01-23	Letter to SC 13 re Review of ISO 11103 and 11104
N132	96-02-05	Status of ISO/TC 20/SC 13 Work Program

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COMMUNICATIONS LOG

ISO TC 20/SC 13/N18

REVISION DATE: 9/1/99

LOG OF DOCUMENTS FOR ISO TC 20/SC 13 (Continued)

“N”- Number	Date Issued	Status *Description
N133	96-03-05	Letter to TC 211 re Liaison activities
N134	96-02-07	Letter to ISO Central Secretariat re NWI 14721, Space systems – Archiving space data
N135	96-03-12	Letter to ISO/TC 20/SC 13 regarding May 1996 meeting
N136	96-05-01	SC 13 Secretariat Report to ISO/TC 20/SC 13 Meeting in Pasadena
N137	96-05-14	Minutes of 11 th Meeting of ISO/TC 20/SC 13 in Pasadena
N138	96-05-22	Archiving Model to Canada for transmittal to TC211
N139	96-06-11	Letter to ISO Central re DIS 12171.2 – Telecommand—Channel Service
N140	96-06-11	Letter to ISO Central re DIS 13419 – Packet Telemetry
N141	96-06-11	Letter to ISO Central Secretariat re 96-05-14 Meeting
N142	96-06-11	Letter to ISO/TC 211 re Relationship between CCSDS and TC 20/SC 13
N143(E)	96-06-11	Form 8A Submission for CCSDS 632.0-B-1 (Standard Formatted Data Units— Control Authority Data Structures)
N143(F)	97-05-09	Form 8A Submission for CCSDS 632.0-B-1 (Standard Formatted Data Units— Control Authority Data Structures)
N144(E)	96-06-11	Form 8A Submission for CCSDS 910.4-B-1 (Cross Support Reference Model, Part 1: SLE Services) (English text)
N144(F)	96-	Form 8A Submission for CCSDS 910.4-B-1 (Cross Support Reference Model, Part 1: SLE Services) (French text)
N145	96-07-03	Preliminary Notice of 1996-11-15 Meeting and Agenda
N146	96-07-15	Letter to ISO/TC 20/SC 13 regarding Status of Proposed Work Items in the Mission Operations Area
N147	96-07-22	Letter to ISO Central re revised French & English texts for ISO/DIS 13419
N148	96-07-22	Letter to ISO Central re English text for ISO/DIS 12171:2
N148(F)	96-08-07	Letter to ISO Central re French text for ISO/DIS 12171:2
N149	96-08-07-	Letter to ISO Central re Liaisons with other ISO committees

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COMMUNICATIONS LOG

ISO TC 20/SC 13/N18
REVISION DATE: 9/1/99

LOG OF DOCUMENTS FOR ISO TC 20/SC 13 (Continued)

“N”- Number	Date Issued	Status *Description
N150	96-09-06	Periodical Review of International Standards (11103 and 11104)
N151	96-09-16	Letter to ISO Central re CCSDS Work Items
N152	96-10-03	Letter to Mr. Wittner (Argentina)
N153	96-11-15	SC 13 Secretariat Report to ISO/TC 20/SC 13 Meeting in Germany
N154	96-11-15	Minutes of 12 th Meeting of ISO/TC 20/SC 13 in Germany
N155	97-01-21	Preliminary Notice of 1997-05-28 Meeting and Agenda
N155/1	97-05-15	Draft Agenda for 1997-05-28 Meeting
N156	97-01-28	SC13 Secretariat Report to TC20 – 1997
N157	97-05-15	SC 13 Secretariat Report to ISO/TC 20/SC 13 Meeting in Brazil
N158	97-05-28	Minutes of 13 th Meeting of ISO/TC 20/SC 13 Meeting in Brazil
N159	97-07-14	Preliminary Notice of 1997-11-14 Meeting and Agenda
N160	97-10-10	Form 8A Submission for CCSDS 121.0-B-1: Lossless Data Compression
N161	97-10-10	Form 8A Submission for CCSDS 622.0-B-1: Standard Formatted Data Units – Referencing Environment
N162	97-10-10	Form 8A Submission for CCSDS 644.0-B-1: The Data Description Language EAST Specification
N163	97-10-10	Form 8A Submission for CCSDS 704.0-B-1, Advanced Orbiting Systems, Networks and Data Links: Audio, Video and Still-image Comm Services
N164	97-11-14	SC 13 Secretariat Report to ISO/TC 20/SC 13 Meeting in England
N165	97-11-14	Draft ISO/TC 20/SC 13 Master Plan
N166	97-11-14	Minutes of the 14 th Meeting of ISO/TC 20/SC 13 Meeting in England
N167	97-12-02	Form 8A Submission of CCSDS 713.0-R, Space Communications Protocol Specification (SCPS)—Network Protocol (SCPS-NP)

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LOG OF DOCUMENTS FOR ISO TC 20/SC 13 (Continued)

“N”- Number	Date Issued	Status *Description
N168	97-12-02	Form 8A Submission of CCSDS 713.5-R, Space Communications Protocol Specification (SCPS)—Security Protocol (SCPS-SP)
N169	97-12-02	Form 8A Submission of CCSDS 714.0-R, Space Communications Protocol Specification (SCPS)—Transport Protocol (SCPS-TP)
N170	97-12-02	Form 8A Submission of CCSDS 717.0-R, Space Communications Protocol Specification (SCPS)—Security Protocol (SCPS-SP)
N171	98-01-28	Preliminary Notice of 1998-06-09 Meeting and Agenda
N171.1	98-05-08	Draft Agenda for 1998-06-09 Meeting
N172	98-06-09	SC 13 Secretariat Report to ISO/TC 20/SC 13 Meeting in Japan
N173	98-09-25	Minutes of 15 th Meeting of ISO/TC 20/SC 13 in Japan
N174	98-07-01	Letter forwarding PKT TLM Services BB for progressing to ISO IS
N175	98-07-24	Preliminary Notice of 1998-11-06 Meeting in Japan
N175.1	98-10-02	Draft Agenda for 1998-11-06 Meeting in Darmstat
N176	98-08-28	Letter accepting Dr. Markarian as CCSDS Associate Member
N177	-----	Not Used
N178	98-09-22	Form 8A Submission for CCSDS 103.0-B-1: Packet Telemetry Services Blue Book Dated May 1996
N179	98-12-02	SC13 Secretariat Report to ISO/TC20/SC13 Meeting in Germany
N180	98-12-02	Letter to Abram requesting delay in processing four SCPS DISs to FDISs
N181	98-12-04	Request to Secretary-General for information re Registering Control Authority with ISO
N182	98-12-07	Letter forwarding ISO form 13 to Abram re EAST DIS
N183	98-12-07	Letter forwarding ISO form 13 to Abram re Referencing Environment DIS
N184	98-12- 29	Letter to Abram requesting delay in processing Audio/Video DISs

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COMMUNICATIONS LOG

ISO TC 20/SC 13/N18
REVISION DATE: 9/1/99

LOG OF DOCUMENTS FOR ISO TC 20/SC 13 (Continued)

“N”- Number	Date Issued	Status *Description
N185	99-03-03	Covering Letter for Draft Agenda for 1999-05-19 Meeting
N186	99-02-03	Draft Agenda for 1999-05-19 Meeting in California
N187	99-02-03	Letter to Abram re Cover Sheet for Packet Services, DIS 17433
N188	99-02-04	Letter forwarding ISO form 13 to Abram re Lossless Compresssion DIS
N189	99-04-12	Minutes of 16 th Meeting of ISO/TC20/SC13 in Darmstadt
N190	99-04-12	Covering Letter for Interim Agenda for 99-05-19 meeting
N191	99-04-12	Secretariat's package for 99-05-19 Meeting in California

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Documents Received from ISO Central Secretariat
December, 1998 - May, 1999

From	Date	Subject
Matthew Williams	1998-12-02	Follow-Up of ISO/TC20 Work
Francois Abram	1998-12-09	Proposed cover sheet (in English and French) for DIS 17433 (TLM Packet Services) to progress to IS vote
Francois Abram	1998-12-23	Granting more time to review four SCPS DISs (ISO DIS 15891-94)
Francois Abram	1999-02-01	Request for English Text file for EAST Specification
Francois Abram	1999-02-08	Copies of several TC20 items and SC13 document listings
K. G. Lingner	1999-02-11	Notification of Brazil's wish to alter its membership status in several ISO Technical Committees
Francois Abram	1999-02-25	Proposed Covering Document for Referencing Environment (DIS 15888)
Francois Abram	1999-03-24	Proposed Covering Document for Packet Telemetry Services (DIS 17433)

ATTACHMENT B
PROGRAM OF WORK

STATUS OF ISO/TC20/SC13 WORK PROGRAM AS OF 01 MAY 1999
COMPLETED WORK ITEMS
 (Approved International Standards)

ISO NUMBER	TITLE	BASED ON CCSDS DOC		CURRENT STATUS
		Doc.#	Date	
ISO 11103	Radiometric & Orbit Data: 1991	501.0-B-1	87-01	Reconfirmed 1996
ISO 11104	Time Code Formats: 1991	301.0-B-2	90-04	Reconfirmed 1996
ISO 12172	Telecommand Part 2--Data Routing Services	202.1-B-2	92-11	Published
ISO 11754	Telemetry Channel Coding: 1994	101.0-B-3	92-05	Published
ISO 12175	SFDU-Structure & Construction Rules: 1994	620.0-B-2	92-05	Published
ISO 13419	Packet Telemetry: 1997	102.0-B-3	92-11	Published
ISO 13420	AOS, N&DL: Architectural Specification:1997	701.0-B-2	92-11	Published
ISO 13764	SFDU--Control Authority Procedures: 1996	630.0-B-1	93-06	Published
ISO 14961	PVL Specification (CCSD 0006)	641.0-B-1	92-05	Published
ISO 14962	ASCII Encoded English (CCSD 0002)	643.0-B-1	92-11	Published
ISO 15395	SFDU-Control Authority Data Structures	632.0-B-1	94-11	Published
ISO 15396	Cross Support Reference Model-SLE Services	910.4-B-1	96-05	Published
ISO 12171	Telecommand Part 1--Channel Services	201.0-B-1	87-01	Published
ISO 12173	Telecommand Part 2.1--Command Op. Proc.	202.1-B-1	91-10	Published
ISO 12174	Telecommand Part 3--Data Mgmt. Procedures	203.0-B-1	87-01	Published
FDIS 17433	Telemetry Packet Services	103.0-B-1	96-05	CCSDS approved modified cover sheet to accompany IS

STATUS OF ISO/TC20/SC13 WORK PROGRAM AS OF 01 MAY 1999
(Items in Progress)

ISO NUMBER	TITLE	BASED ON CCSDS DOC		CURRENT STATUS
		Doc.#	Date	
CD 14721	Space Systems - Archiving Space Data	--	--	CD study initiated.
FDIS 15887	Lossless Data Compression	121.0-B-1	97-05	Progressed to FDIS
FDIS 15888	Standard Formatted Data Units -- Referencing Environment	622.0-B-1	97-05	Voting completed - 100% affirmative Progressed to FDIS
FDIS 15889	Data Description Language - EAST Specification	644.0-b-1	97-05	Voting completed - 100% affirmative Progressed to FDIS
DIS 15890	AOS Audio/Video and Still-Image Communications Services	704.0-B-1	94-05	Voting completed- 100% affirmative Delay granted in progressing to FDIS
DIS 15891	Space Communications Protocol Specification (SCPS)-- Network Protocol (SCPS-NP)	713.0-R-3	97-09	Voting completed- 100% affirmative Delay granted in progressing to FDIS
DIS 15892	Space Communications Protocol Specification (SCPS) -- Security Protocol (SCPS-SP)	713.5-R-3	97-09	Voting completed- 100% affirmative Delay granted in progressing to FDIS
DIS 15893	Space Communications Protocol Specification (SCPS) -- Transport Protocol (SCPS-TP)	713.4-R-3	97-09	Voting completed- 100% affirmative Delay granted in progressing to FDIS
DIS 15894	Space Communications Protocol Specification (SCPS) -- File Protocol (SCPS-FP)	717.0-R-3	97-09	Voting completed- 100% affirmative Delay granted in progressing to FDIS

ATTACHMENT C
GREAT BRITAIN REPORT

BNSC Report to SC13 May 19, 99

The work of the British Standards Institute (BSi) ACE/67 for Information Transfer Standards has continued its work in reviewing the drafts, DIS and FDIS documents from SC13. A similar committee (ACE/68) tracks the work of SC14 and P. Vaughan, the chairman of ACE/67 attends some of the ACE/68 meetings. The relationships with ECSS are evolving with work to resolve the problems which arise when the ECSS wishes to submit documents to ISO which do not conform to the ISO format or referencing system.

Documents from SC13 to ACE/67

All of the draft standards from SC13, and reviewed by AC/67, have been approved and passed on for issue as BSi Standards. A complete list of theses is given below:

- BS Z 1 Radio Metric and Orbit data
- BS Z 2 Time Code Formats
- BS Z 3 Telemetry Channel Coding
- BS Z 4 SFDUs Structure and construction rules
- BS Z 5 SFDUs Control authority procedures
- BS Z 6 PVL specification
- BS Z 7 ASCII encoded English
- BS Z 8 Packet Telemetry
- BS Z 9 AOS Network and data links
- BS Z 10 SFDUs Control authority data structures
- BS Z 11 Cross Support Reference Model - SLE
- BS Z 12 Telecommand - Channel Service
- BS Z 13 Telecommand - Data Management Service
- BS Z 14 Telecommand - Command Operations procedures
- BS Z 15 Telecommand - Data Routing Service

Workshops

A 5th UK CCSDS workshop on "New Technologies, new Standards" was held at the IEE, London on 9.11.98. The progress of the CCSDS documents to SC 13 and issue as ISO standards was explained and there was discussion on the need for conformance testing of our recommendations and standards.

P Vaughan May 99

ATTACHMENT D

FRANCE REPORT

**CNES REPORT
TC/20/SC13 MEETING
NEW PORT BEACH May 1999**

INTRODUCTION

- CNES continues to provide the chairmanship of TC/20/SC/13 .
- CNES is working with SC/13 Secretariat and with ISO Secretariat in order to move CCSDS blue books to ISO normes according to ISO procedures .
- CNES is also working with B N A E (French Office for Space and Aerospace Standardisation) and AFNOR (French Normalisation Organisation) in order to promote CCSDS recommandations in the French industry community .

CNES support to SC/13 activities.

Approval

No CCSDS document received from AFNOR for ISO vote.

ISO procedures

The Chairman and the Secretariat of ISO/TC20/SC 13 initiate the procedure for moving CCSDS 103 0-B-1 Packet Telemetry Services to DIS approval stage (ISO/DIS 17433).
The Chairman and the Secretariat of ISO/TC20/SC 13 initiate the procedure for progressing from ISO/DIS to ISO/FDIS approval stage the following documents:

- DIS 15887 (CCSDS 121 0-B-1) Lossless data compression
- DIS 15888 (CCSDS 622 0-B-2) Standard Formatted Data Units
- DIS 15889 (CCSDS 644 0-B-1)Language East Specification

According to the last SC/13 decisions,the following SCPS documents
DIS 15891 ,15892 ,15893,15894 will remain (with ISO agreement) at DIS stage until the editing can be completed by NASA

French translation

For ISO/DIS 15887 (CCSDS 121-0-B1) Lossless data compression, French translation has been forwarded to ISO Secretariat in April
For ISO/DIS 15889 (CCSDS 644-0-B1) Language East Specification, French translation has been forwarded to ISO Secretariat the 18 of November 1998.
For ISO/DIS 17433 (CCSDS 103-0-B1) Packet Telemetry Services, French translation has been forwarded to ISO Secretariat The 18 of November 1988

Other standardisation activities

- In the field of Space Standardisation CNES is working for ECSS (European Cooperation for Space Standardisation) ,notably in drafting group E 70 Space Engineering Ground Systems and Operations.
- The ECSS document E 70 draft 12 has been approved by ECSS Technical Panel ,and forwarded by CNES to SC/13 Secretariat for information,and diffusion on request to CCSDS members ..
- For ISO/TC/20/SC/14/WG 3 CNES is working in following drafting groups:
 - ISO/DIS 14620 Launch Operations (in D I S)
 - ISO/CD 14950 Satellite Operability (New issue from 28/02/99 in review by SC/14)
 - ISO /CD 14711 Space system.Mission Operation concept Checklist (new issue)

ATTACHMENT E
CANADA REPORT

Report not available

ATTACHMENT F
BRAZIL REPORT



ABNT- BRAZILIAN ASSOCIATION OF TECHNICAL STANDARDS
CB 08 - BRAZILIAN COMMITTEE OF AERONAUTICS AND SPACE
SC 08:001 - SUBCOMMITTEE OF SPACE ACTIVITY
CE 08:001.06 - COMMISSION OF STUDIES IN SPACE DATA AND INFORMATION SYSTEMS

Brazil/ABNT REPORT SC-13/TC-20/ISO MEETING

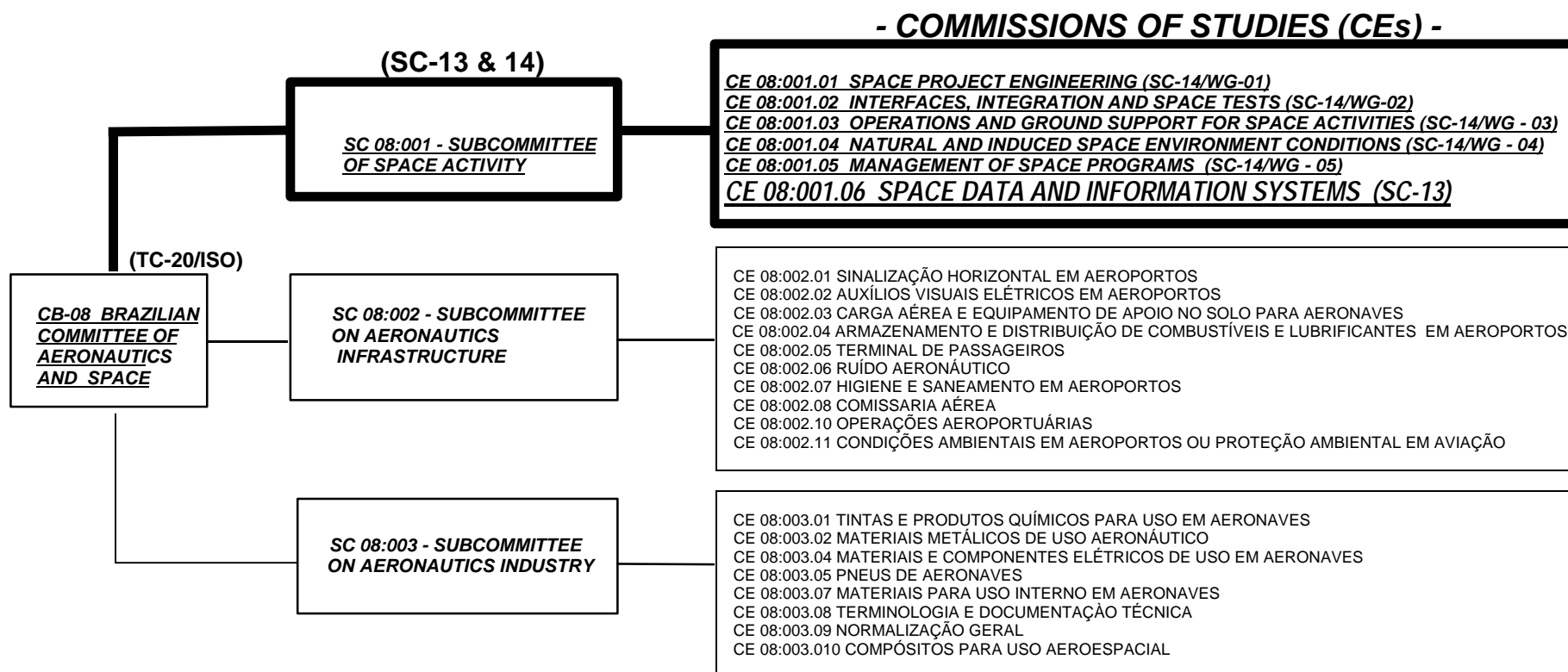
19 May 1999

Newport Beach, CA, U.S.A.



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STRUCTURE OF CB-08/ABNT/Brazil: THE TC-20/ISO EQUIVALENT





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THE COMMISSION OF STUDIES CE 08:001.06 OF ABNT/BRAZIL ON ‘SPACE DATA AND INFORMATION SYSTEMS’: SOME OF THE RELATED EVENTS

- Proposed, in November 1997;
- Approved, in March 1998;
- Announced, in June 1998;
- First Meeting, in December 1998;
- Inauguration of the URL-WWW of the ‘Brazilian Information Network for the Standardization of Space Activities - RBNAE’, in December 1998;
- Concept of the ‘Cover Sheet’ Basic Approach to be proposed to ABNT, in April 1999;
- Submission of Update List of Projects for Standardization be for ABNT, in May 1999;
- Elaboration of Summaries for each proposed standards, May-July 1999;
- Planned Proposal to ABNT/Brazil for association to SC-13/TC-20/ISO from ‘O’ to ‘P’ Member, by August 2000.

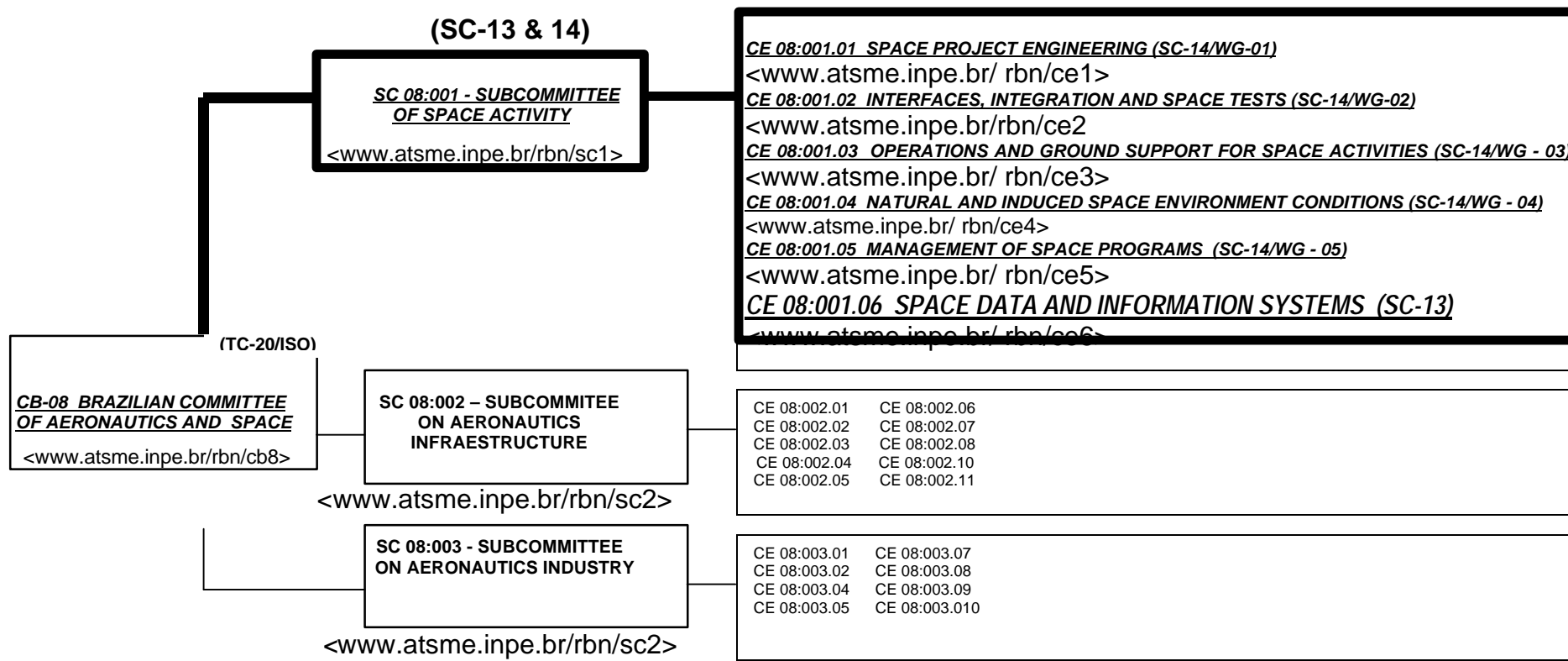


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BRAZILIAN INFORMATION NETWORK FOR THE STANDARDIZATION OF SPACE ACTIVITIES–RBNAE
HOME PAGE URL ADDRESS: <www.atsme.inpe.br/rbn>

- MAIN URL ADDRESSES OF RBNAE NETWORK-

- COMMISSIONS OF STUDIES (CEs) -





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SUBCOMITÊ DE ATIVIDADE ESPACIAL (SC 08:001) - Brasil
SUBCOMMITTEE OF SPACE ACTIVITY (SC 08:001) - Brazil
(Incorporates SC-13 & SC-14/TC-20/ISO Activities, in Brazil)

COMITÊ BRASILEIRO DE AERONÁUTICA E ESPAÇO (CB-08)
BRAZILIAN COMMITTEE OF AERONAUTICS AND SPACE (CB-08)

ASSOCIAÇÃO BRASILEIRA DE NORMAS TÉCNICAS (ABNT)
BRAZILIAN ASSOCIATION OF TECHNICAL STANDARDS (ABNT)

Este/This URL: <<http://www.atsme.inpe.br/rbn>>

Instituto Nacional de Pesquisas Espaciais - INPE
Ministério da Ciência e Tecnologia - MCT
São José dos Campos, SP
- BRASIL -

SECRETARIA

PORTUGUÊS

ENGLISH

SECRETARIAT



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VOLTA

BACK

CE 08:001.01 - COMISSÃO DE ESTUDOS EM ENGENHARIA DE PROJETO ESPACIAL (WG-01/SC-14/TC-20/ISO)
CE 08:001.01 - COMMISSION OF STUDIES ON SPACE PROJECT ENGINEERING (WG-01/SC-14/TC-20/ISO)

SUBCOMITÊ DE ATIVIDADE ESPACIAL (SC 08:001)
SUBCOMMITTEE OF SPACE ACTIVITY (SC 08:001)

COMITÊ BRASILEIRO DE AERONÁUTICA E ESPAÇO (CB-08)
BRAZILIAN COMMITTEE OF AERONAUTICS AND SPACE (CB-08)

ASSOCIAÇÃO BRASILEIRA DE NORMAS TÉCNICAS (ABNT)
BRAZILIAN ASSOCIATION OF TECHNICAL STANDARDS (ABNT)

COORDENADOR/COORDINATOR: Eng. Ralph Correa
CENIC - Engenharia Indústria e Comércio Ltda.
Av. Marginal B, 1648 - Chácaras Reunidas
12238-390 São José dos Campos, SP
- BRASIL -
FONE: +55.(0)12.331.4222; FAX: +55.(0)12.333.3101;
E-MAIL: <cenic@iconet.com.br>

URL: <http://www.atsme.inpe.br/rbn/ce1>

**INFORMAÇÕES
BÁSICAS**

**BASIC
INFORMATION**



ABNT- BRAZILIAN ASSOCIATION OF TECHNICAL STANDARDS
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VOLTA

BACK

CE 08:001.06 - COMISSÃO DE ESTUDOS EM SISTEMAS ESPACIAIS DE DADOS E INFORMAÇÕES (SC-13/TC-20/ISO)

CE 08:001.06 - COMMISSION OF STUDIES ON SPACE DATA AND INFORMATION SYSTEMS (SC-13/TC-20/ISO)

SUBCOMITÊ DE ATIVIDADE ESPACIAL (SC 08:001)
SUBCOMMITTEE OF SPACE ACTIVITY (SC 08:001)

COMITÊ BRASILEIRO DE AERONÁUTICA E ESPAÇO (CB-08)
BRAZILIAN COMMITTEE OF AERONAUTICS AND SPACE (CB-08)

ASSOCIAÇÃO BRASILEIRA DE NORMAS TÉCNICAS (ABNT)
BRAZILIAN ASSOCIATION OF TECHNICAL STANDARDS (ABNT)

COORDENADOR/COORDINATOR: Eduardo Whitaker Bergamini

Instituto Nacional de Pesquisas Espaciais - INPE

Ministério da Ciência e Tecnologia - MCT

Avenida dos Astronautas, 1758

12.227-010 São José dos Campos, SP

- BRASIL -

FONE: +55.(0) 12.345.6166; FAX: +55.(0) 12.345.6150;

E-MAIL: <Eduardo.W.Bergamini@atsme.inpe.br>

URL: <<http://www.atsme.inpe.br/rbn/ce6>>

**INFORMAÇÕES
BÁSICAS**

**BASIC
INFORMATION**



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STATUS OF SC-13 STANDARDS AIMED FOR ADOPTION BY ABNT IN BRAZIL

NS 99 - Plano de Normalização Nacional ('National Plan of Normalization')
Associação Brasileira de Normas Técnicas - ABNT ('Brazilian Association for Technical Standards')
Plano de Projetos de Normalização Submetido pela CE 08:001.06 à ABNT, em MAIO de 1999. ('Plan of Projects Submitted by CE 08:001.06 to ABNT in MAY 1999').

- List of Projects of Candidate Documents for becoming ABNT Standards in Brazil -

CB/ONS: 08 AERONÁUTICA E ESPAÇO ('AERONAUTICS AND SPACE')
SC: 08001 ATIVIDADE ESPACIAL ('SPACE ACTIVITY')
CE: 0800106 SISTEMAS ESPACIAIS DE DADOS E INFORMAÇÕES ('SPACE DATA AND INFORMATION SYSTEMS')
COORDENADOR ('COORDINATOR'): Eduardo W. Bergamini - INPE/MCT

Nr. Projeto: 08:001.06-001 ICS:	Título do Projeto: Sistemas Espaciais de Dados e Informações ('Space Data and Information Systems') -- Dados Radiométricos e Orbitais ('Radio Metric and Orbit Data') Origem / Ano: ISO 11103/1991 Observação: doc. já revisto pela ABNT, para a ISO
Nr. Projeto: 08:001.06-002 ICS:	Título do Projeto: Sistemas Espaciais de Dados e Informações ('Space Data and Information Systems') -- Formatos de Códigos de Tempo ('Time Code Formats'): 1991 Origem / Ano: ISO 11104/1991 Observação: doc. já revisto pela ABNT, para a ISO
Nr. Projeto: 08:001.06-003 ICS:	Título do Projeto: Sistemas Espaciais de Dados e Informações ('Space Data and Information Systems') -- Codificação de Canal de Telemetria ('Telemetry Channel Coding'): 1994 Origem / Ano: ISO 11754/1994 Observação: doc. já revisto pela ABNT, para a ISO
Nr. Projeto: 08:001.06-004 ICS:	Título do Projeto: Sistemas Espaciais de Dados e Informações ('Space Data and Information Systems') -- Telecomando ('Telecommand') -- Serviço de Canal ('Channel Service')-- Especificação da Arquitetura ('Architectural Specification') Origem / Ano: ISO 12171/1998 Observação: doc. já revisto pela ABNT, para a ISO



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STATUS OF SC-13 STANDARDS AIMED FOR ADOPTION BY ABNT IN BRAZIL
CONTINUATION

Nr. Projeto: 08:001.06-005 ICS:	Título do Projeto: Sistemas Espaciais de Dados e Informações ('Space Data and Information Systems') -- Telecomando ('Telecommand') -- Serviço de Roteamento de Dados ('Data Routing Service') Origem / Ano: ISO 12172/1998 Observação: doc. já revisito pela ABNT, para a ISO
Nr. Projeto: 08:001.06-006 ICS:	Título do Projeto: Sistemas Espaciais de Dados e Informações ('Space Data and Information Systems') -- Telecomando ('Telecommand') -- Procedimentos para Comandos de Operação ('Command Operation Procedures') Origem / Ano: ISO 12173/1998 Observação: doc. já revisito pela ABNT, para a ISO
Nr. Projeto: 08:001.06-007 ICS:	Título do Projeto: Sistemas Espaciais de Dados e Informações ('Space Data and Information Systems') -- Telecomando ('Telecommand') -- Serviço de Gerenciamento de Dados ('Data Management Service') -- Especificação da Arquitetura ('Architectural Specification') Origem / Ano: ISO 12174/1998 Observação: doc. já revisito pela ABNT, para a ISO
Nr. Projeto: 08:001.06-008 ICS:	Título do Projeto: Sistemas Espaciais de Dados e Informações ('Space Data and Information Systems') -- Unidades de Dados com Formato Padrão - SFDU ('Standard Formatted Data Units')-- Regras de Estrutura e de Construção ('Structure & Construction Rules') Origem / Ano: ISO 12175/1994 Observação: doc. já revisito pela ABNT, para a ISO. <u>SUMÁRIO/doc.proj.CE 08:001.06-008</u>
Nr. Projeto: 08:001.06-009 ICS:	Título do Projeto: Sistemas Espaciais de Dados e Informações ('Space Data and Information Systems') -- Telemetria por Pacotes ('Packet Telemetry') Origem / Ano: ISO 13419/1997 Observação: doc. já revisito pela ABNT, para a ISO



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STATUS OF SC-13 STANDARDS AIMED FOR ADOPTION BY ABNT IN BRAZIL
CONTINUATION

Nr. Projeto: 08:001.06-010 ICS:	Título do Projeto: Sistemas Espaciais de Dados e Informações ('Space Data and Information Systems') -- Sistemas Orbitais Avançados - AOS ('Advanced Orbiting Systems') -- Redes e Enlaces de Dados ('Networks and Data Links') -- Especificação da Arquitetura ('Architectural Specification') Origem / Ano: ISO 13420/1997 Observação: doc. já revisto pela ABNT, para a ISO
Nr. Projeto: 08:001.06-011 ICS:	Título do Projeto: Sistemas Espaciais de Dados e Informações ('Space Data and Information Systems') -- Unidades de Dados com Formato Padrão – SFDU ('Standard Formatted Data Units') -- Procedimentos da Autoridade de Controle ('Control Authority Procedures') Origem / Ano: ISO 13764/1996 Observação: doc. já revisto pela ABNT, para a ISO. <u>SUMÁRIO/doc.proj.CE 08:001.06-008</u>
Nr. Projeto: 08:001.06-012 ICS:	Título do Projeto: Sistemas Espaciais de Dados e Informações ('Space Data and Information Systems') -- Sistemas Espaciais ('Space Systems') - Arquivamento de Dados Espaciais ('Archiving Space Data') Origem / Ano: ISO/CD 14721 Observação: doc. a ser revisto pela ABNT, para a ISO.
Nr. Projeto: 08:001.06-013 ICS:	Título do Projeto: Sistemas Espaciais de Dados e Informações ('Space Data and Information Systems') -- Especificação da Linguagem PVL ('PVL Specification') Origem / Ano: ISO 14961/1997 Observação: doc. já revisto pela ABNT, para a ISO
Nr. Projeto: 08:001.06-014 ICS:	Título do Projeto: Sistemas Espaciais de Dados e Informações ('Space Data and Information Systems') -- Inglês Codificado em ASCII ('ASCII Encoded English') Origem / Ano: ISO 14962/1997 Observação: doc. já revisto pela ABNT, para a ISO



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STATUS OF SC-13 STANDARDS AIMED FOR ADOPTION BY ABNT IN BRAZIL
CONTINUATION

Nr. Projeto: 08:001.06-015 ICS:	Título do Projeto: Sistemas Espaciais de Dados e Informações ('Space Data and Information Systems') -- Unidades de Dados com Formato Padrão - SFDU ('Standard Formatted Data Units') -- Estruturas de Dados da Autoridade de Controle ('Control Authority Data Structures') Origem / Ano: ISO 15395/1998 Observação: doc. já revisto pela ABNT, para a ISO
Nr. Projeto: 08:001.06-016 ICS:	Título do Projeto: Sistemas Espaciais de Dados e Informações ('Space Data and Information Systems') -- Modelo de Referência para Apoio Cruzado ('Cross Support Reference Model') -- Serviços de Extensão de Enlaces Espaciais ('Space Link Extension Services') Origem / Ano: ISO 15396/1998 Observação: doc. já revisto pela ABNT, para a ISO
Nr. Projeto: 08:001.06-017 ICS:	Título do Projeto: Sistemas Espaciais de Dados e Informações ('Space Data and Information Systems') -- Compressão de Dados sem Perda ('Lossless Data Compression') Origem / Ano: ISO/FDIS 15887 Observação: doc. DIS já revisto pela ABNT, para a ISO
Nr. Projeto: 08:001.06-018 ICS:	Título do Projeto: Sistemas Espaciais de Dados e Informações ('Space Data and Information Systems') -- Unidades de Dados com Formato Padrão - SFDU ('Standard Formatted Data Units') -- Ambiente de Referência ('Referencing Environment') Origem / Ano: ISO/FDIS 15888 Observação: doc. DIS já revisto pela ABNT, para a ISO
Nr. Projeto: 08:001.06-019 ICS:	Título do Projeto: Sistemas Espaciais de Dados e Informações ('Space Data and Information Systems') -- Linguagem de Descrição de Dados ('Data Description Language')-Especificação EAST ('EAST Specification') Origem / Ano: ISO/FDIS 15889 Observação: doc. DIS já revisto pela ABNT, para a ISO



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STATUS OF SC-13 STANDARDS AIMED FOR ADOPTION BY ABNT IN BRAZIL
CONTINUATION

Nr. Projeto: 08:001.06-020 ICS:	Título do Projeto: Sistemas Espaciais de Dados e Informações ('Space Data and Information Systems') -- Sistemas Orbitais Avançados, Redes e Enlaces de Dados - Áudio, Vídeo e Serviços de Comunicações de Imagens Estáticas (-- 'Advanced Orbiting Systems, Networks and Data Links - Audio, Video and Still-Image Communications Services') Origem / Ano: ISO/DIS 15890 Observação: doc. já revisto pela ABNT, para a ISO
Nr. Projeto: 08:001.06-021 ICS:	Título do Projeto: Sistemas Espaciais de Dados e Informações ('Space Data and Information Systems') -- Especificação de Protocolo para Comunicações Espaciais - SCPS ('Protocol Specification for Space Communications') -- Protocolo de Rede - NP ('Network Protocol') Origem / Ano: ISO/DIS 15891 Observação: doc. já revisto pela ABNT, para a ISO
Nr. Projeto: 08:001.06-022 ICS:	Título do Projeto: Sistemas Espaciais de Dados e Informações ('Space Data and Information Systems') -- Especificação de Protocolo para Comunicações Espaciais - SCPS ('Protocol Specification for Space Communications') -- Protocolo de Segurança - SP ('Security Protocol') Origem / Ano: ISO/DIS 15892 Observação: doc. já revisto pela ABNT, para a ISO
Nr. Projeto: 08:001.06-023 ICS:	Título do Projeto: Sistemas Espaciais de Dados e Informações ('Space Data and Information Systems') -- Especificação de Protocolo para Comunicações Espaciais - SCPS ('Protocol Specification for Space Communications') -- Protocolo de Transporte - TP ('Transport Protocol') Origem / Ano: ISO/DIS 15893 Observação: doc. já revisto pela ABNT, para a ISO



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STATUS OF SC-13 STANDARDS AIMED FOR ADOPTION BY ABNT IN BRAZIL
CONTINUATION

Nr. Projeto: 08:001.06-024 ICS:	Título do Projeto: Sistemas Espaciais de Dados e Informações ('Space Data and Information Systems') -- Especificação de Protocolo para Comunicações Espaciais - SCPS ('Protocol Specification for Space Communications') -- Protocolo de Arquivos - FP ('File Protocol') Origem / Ano: ISO/DIS 15894 Observação: doc. já revisto pela ABNT, para a ISO
Nr. Projeto: 08:001.06-025 ICS:	Título do Projeto: Sistemas Espaciais de Dados e Informações ('Space Data and Information Systems') -- Serviço de Telemetria por Pacotes ('Telemetry Packet Services') Origem / Ano: ISO/FDIS 17433 Observação: doc. a ser revisto pela ABNT, para a ISO



STATUS OF SC-13 STANDARDS AIMED FOR ADOPTION BY ABNT IN BRAZIL CONTINUATION

SAMPLE MODEL OF 'COVER SHEET' TO SC-13 STD BEING PROPOSED FOR ADOPTION BY ABNT

CE 08:001.06	1999	doc. proj. CE 08:001.06-011
Comissão de Estudos em Sistemas Espaciais de Dados e Informações		
- TÍTULO DO DOCUMENTO -		
Sistemas Espaciais de Dados e Informações -- Unidades de Dados com Formato Padrão - SFDU -- Procedimentos da Autoridade de Controle		
Ref. - Baseado em Documento de Padrão ISO, originalmente submetido pelo seu Subcomitê SC-13/TC-20 (em 'Space Data and Information Transfer Systems'), sob o título: 'ISO 13764:1996 - Space Data and Information Transfer Systems -- Standard Formatted Data Units - Control Authority Procedures'.		
Este Padrão ISO foi originalmente desenvolvido e adotado como Recomendação pelo 'Consultative Committee for Space Data Systems- CCSDS', sob o título: 'Recommendation for Space Data System Standards: STANDARD FORMATTED DATA UNITS- CONTROL AUTHORITY PROCEDURES, CCSDS 6300-B-1, Blue Book, June 1993'.		
<u>OBSERVAÇÃO:</u> Este documento apresenta o SUMÁRIO de um PADRÃO ISO que está sendo considerado pela Comissão de Estudos CE 08:001.06 da ABNT para sua adoção como NORMA Nacional (Brasil).		

- SUMÁRIO -

Este documento tem por objetivo estabelecer um Padrão técnico para a organização da Autoridade de Controle no apoio à transferência de informações digitais relacionadas com entidades dedicadas à atividades espaciais, em um ambiente de sistema aberto de troca de dados que utiliza Unidades de Dados com Formato Padrão (SFDUs). Este documento também contém referências a outros documentos que descrevem o conceito SFDU.

Este Padrão técnico define as responsabilidades que precisam ser assumidas e os serviços que precisam ser providos pelas entidades envolvidas com atividades espaciais para que a criação e a operação da organização da Autoridade de Controle possa ser facilitada.

Obedecendo ao processo normal de evolução do conceito apresentado por este Padrão técnico, este documento poderá vir a ser expandido, resumido ou modificado, de acordo com as regras existentes, já pré-estabelecidas para este tipo de ocorrência, pela ABNT.



**ABNT - Associação
Brasileira de Normas
Técnicas**

Sede:
Rio de Janeiro
Av. Treze de Maio, 1328º andar
CEP 20003-1 - Caixa Postal 1690
Rio de Janeiro - RJ
Tel.: PABX (021) 210-3122
Endereço Telegráfico:
NORMATECNICA

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Following 5 year Review Documents will be soon approved by Space Data Committee.

ISO11754:1994 Space data and information transfer systems
-Telemetry channel coding

ISO12175:1994 Space data and information transfer systems
-Standard formatted data units
-Structure and construction rules